



AP 1616
JFW

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ward B. Bowen Atty. Docket: 87312.000003
Serial No.: 09/876,322 Examiner: Pak, John D.
Filed: June 7, 2001 Art Unit: 1616
Title: A METHOD AND COMPOSITION FOR THE ACCELERATED IN VIVO
REMOVAL OF ETHANOL

RESPONSE AFTER FINAL REJECTION

Mail Stop AF
Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Office Action (FINAL) mailed May 20, 2004 please
amend the above-identified application as follows

In the Claims

1 **(Previously Presented)** A composition for accelerating in vivo
oxidation of alcohol, the composition comprising NAD^+ and a catalyst comprising
at least one of a species selected from the group consisting of a multivalent
transition metal ion, and a complex thereof excluding manganese, iron,
chromium, copper and zinc; the species being in a state selected to accelerate in
vivo oxidation of alcohol in the absence of a dehydrogenase where said catalyst
effects the oxidation of NADH , thus recycling NAD^+ and the composition having a
sufficient quantity of the transition metal ion to provide an in vivo concentration of
the ion in the range 0.05% to 2% of a maximum in vivo molar concentration of
ethanol.

2. **(Cancelled)**

**AMENDMENT TRANSMITTAL**☐ Large Entity
☒ Small Entity

Applicant(s): Ward B. Bowen

Docket No.
87312.000003

Serial No. Filing Date Examiner Group Art Unit

09/876,322 June 7, 2001 Pak, John D. 1616

Invention: A METHOD AND COMPOSITION FOR THE ACCELERATED IN VIVO REMOVAL OF ETHANOL

TO THE ASSISTANT COMMISSIONER FOR PATENTS:

Transmitted herewith is an amendment in the above-identified application.

The fee has been calculated and is transmitted as shown below.

CLAIMS AS AMENDED

| | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST # PREV. PAID FOR | NUMBER EXTRA CLAIMS PRESENT | RATE | ADDITIONAL FEE |
|--|-------------------------------------|-----------------------------|--------------------------------|---------|-----------------|
| TOTAL CLAIMS | 63 - | 104 = | 0 | X 18.00 | \$0.00 |
| INDEP. CLAIMS | 8 - | 4 = | 4 | X 86.00 | \$344.00 |
| Multiple Dependent Claims (check if applicable) <input type="checkbox"/> | | | | | |
| If small entity status, reduce by 50% | | | | | \$172.00 |
| TOTAL ADDITIONAL FEE FOR THIS AMENDMENT | | | | | \$172.00 |

- ☐ No additional fee is required for amendment.
- ☐ Please charge Deposit Account No. 033875 in the amount of _____.
- A duplicate copy of this sheet is enclosed.
- ☒ A check in the amount of \$172.00 to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to credit any overpayment to Deposit Account No. 033875.
- A duplicate copy of this sheet is enclosed.

Signature

Reg. 24,554

Dated:
June 28, 2004

Customer No. 23387

I certify that this document and fee is being deposited on July 1, 2004 with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Signature of Person Mailing CorrespondenceMary E. Hampton

Typed or Printed Name of Person Mailing Correspondence